



# MISSOURI BOTANICAL GARDEN

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## GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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Jan 16 1919

Short  
Agric. Polytechnic  
Inst. & Plant  
works



ovary 12-13 <sup>"</sup>  
tube 7-8 <sup>"</sup>  
lobes 20-21 <sup>"</sup> long  
filament 3 <sup>1</sup>/<sub>2</sub> wide  
anthers 60 <sup>"</sup> long



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MISSOURI  
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
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(*Agave polycantha* Haw. no named - H. Beck Hort Bot Berlin J. 14 1869  
(*A. chloroantha* Salis) cult with brown spines ? like Bouche's varibly.  
(*A. multiflora* H. Kew) see below

*A. polycantha* Koch  
var. <sup>lanceolata</sup>



fls. 40 mm long exter. & vix apicis fasciat. -  
ovar. 12 mm long.  
tuber 2-3 mm long

Caudex 20-21 mm long  
stems 60-63 mm long  
oblong leaves, tubo fructuosa longa  
ad fascia ipsam ramenta  
plantae mbo fructu  
anth. " " 17 mm long  
style as long as a little longer or shorter than stem

Trunk & root high; leaves 2-3 feet long thick  
with brown stiff spiny teeth, and a long stiff terminal  
spine. Sprouting: two sprouts, opposite (rest  
in the uppermost axil only). Leaves above  
the sprouts) lowest pair of leaves on these  
sprouts about 6 inches long, very thick, triangular, strongly  
carinate, carina and edges brown, of same dry  
rigid substance as teeth, but not toothed ~~sharp~~



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L.W.L

Scape 4-5 feet high, with lance-linear,  
subulate pointed bracts 3-5 inches long;  
flowering part 3 feet high.

Flowers extremely crowded; bracts shorter  
than ovary, from orbicular base subulate.

Result of experiments with the withered flower  
is favorable thus far, that the organs  
are after well soaking restored to their  
full length, anthers to their full size  
but they do not reacquire their  
fullness or plumpness; especially the  
ovary and the style, but more  
or less the whole flower ~~becomes~~  
more slender, gracile, while the stigmas  
remains thick.

The Berlin spec. is described as *A. polyantha* Koch (f. & Ha.)  
- Jaobi p. 73 - but fl. there unknown.  
*A. akloanth* is very doubtful according to Jaobi.  
*A. polyantha* Haw. is by Kurth referred to *A. virgina*!  
The pub. is certainly *A. polyantha* Koch Wurmbsschiff  
für Garten & Pflauekund 1860 p. 38  
Jaobi p. 73. though those described ~~are~~ ~~are~~ ~~are~~

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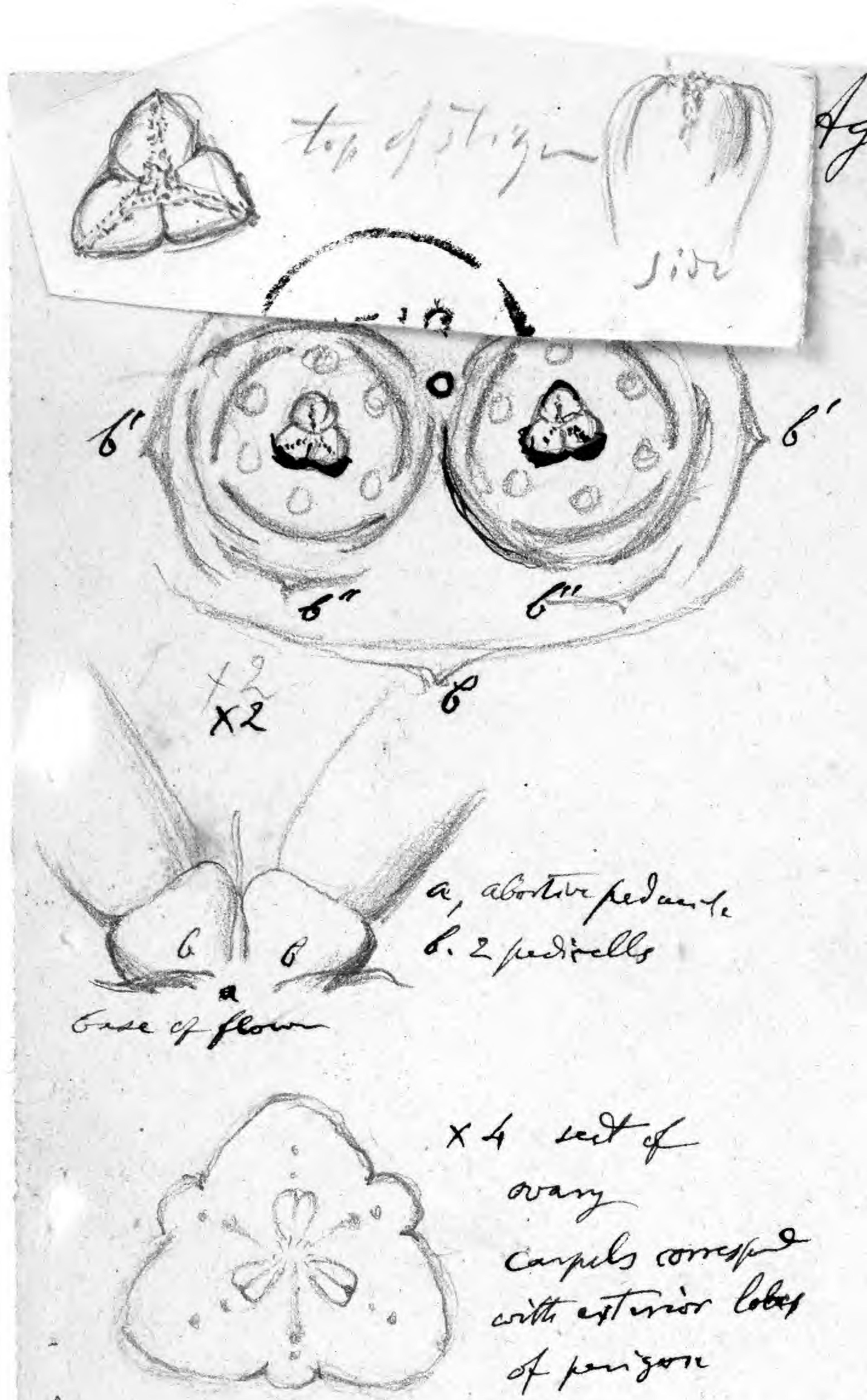
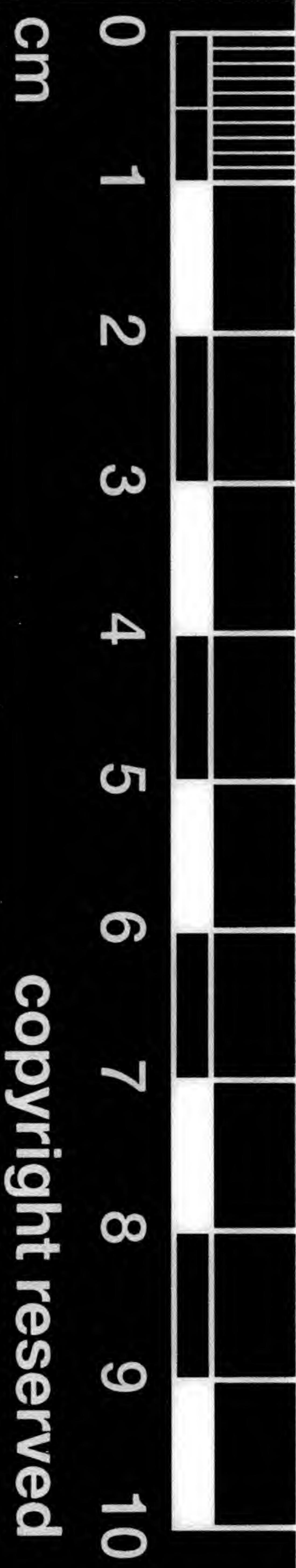


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abortive pedicels green, fleshy  
pedicels 2 mm long  
flos 48 mm long green  
ovar 14 mm long  
tubus 13 mm long  
corolla 22 mm long  
stigma 15 mm long

Agave mitch  
just beg  
Tucobi Aga

6'

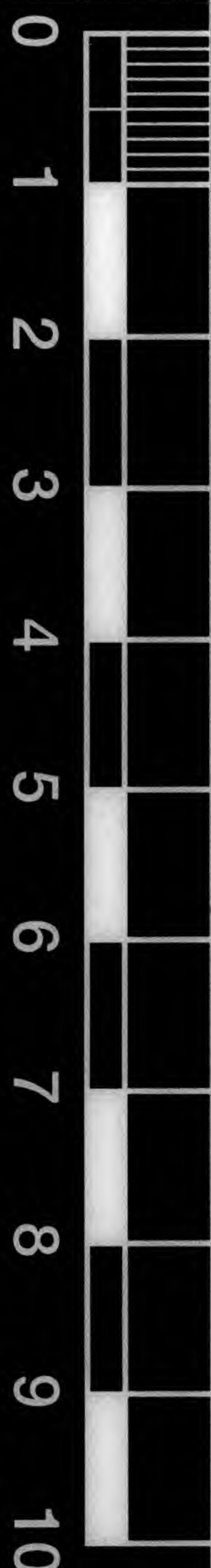
white

4

white  
pink  
yellow  
green

purple  
green  
brown

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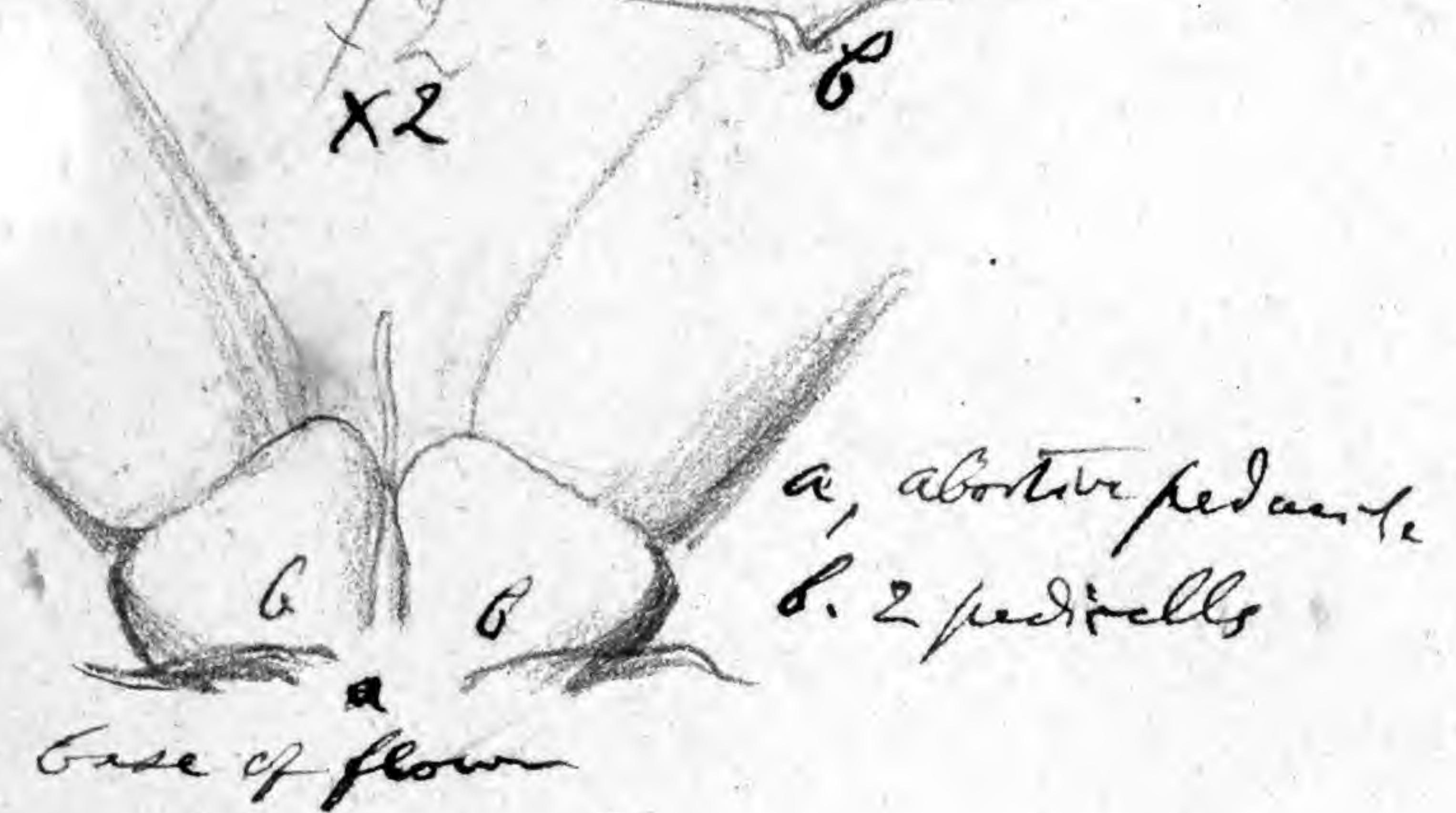
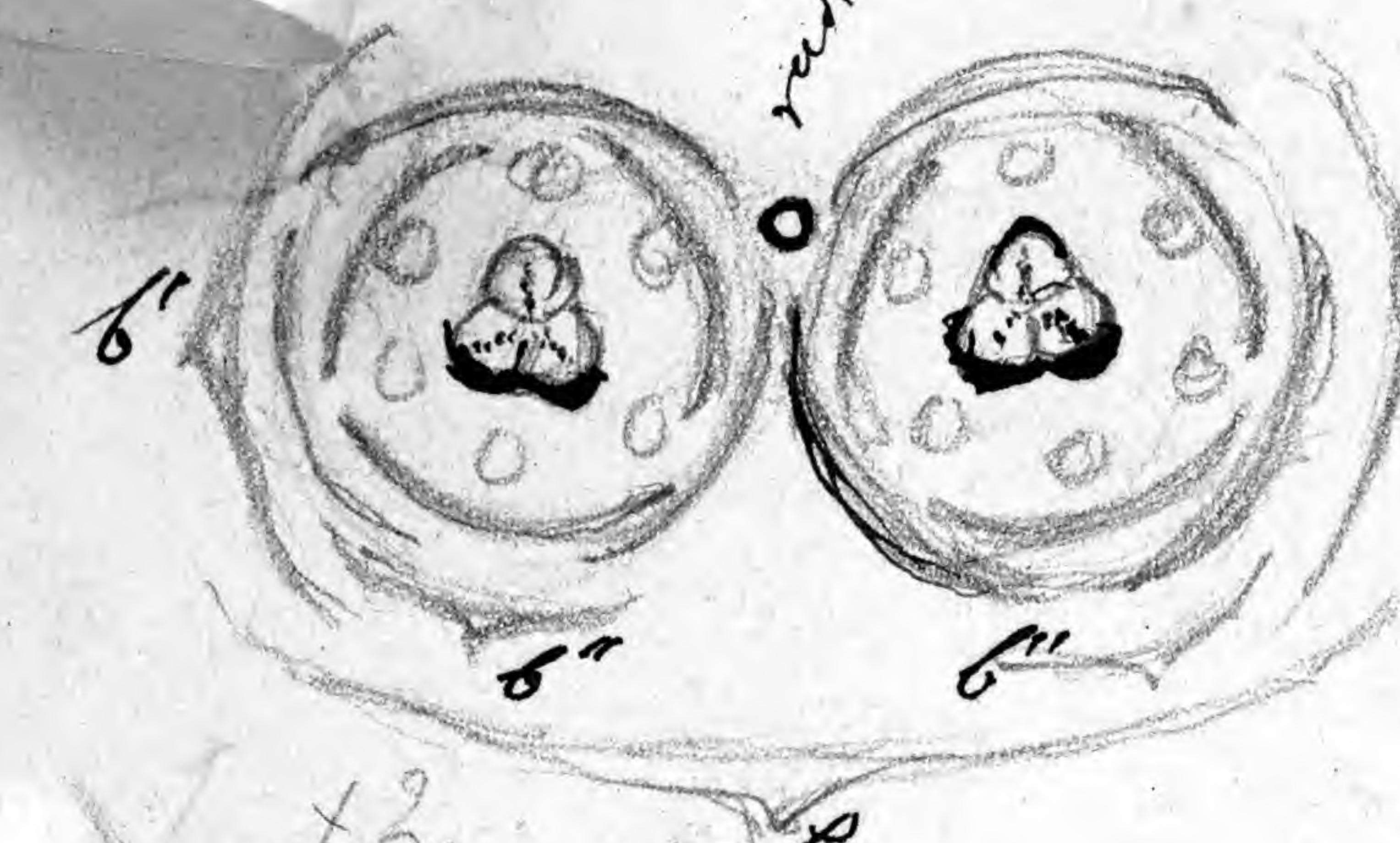


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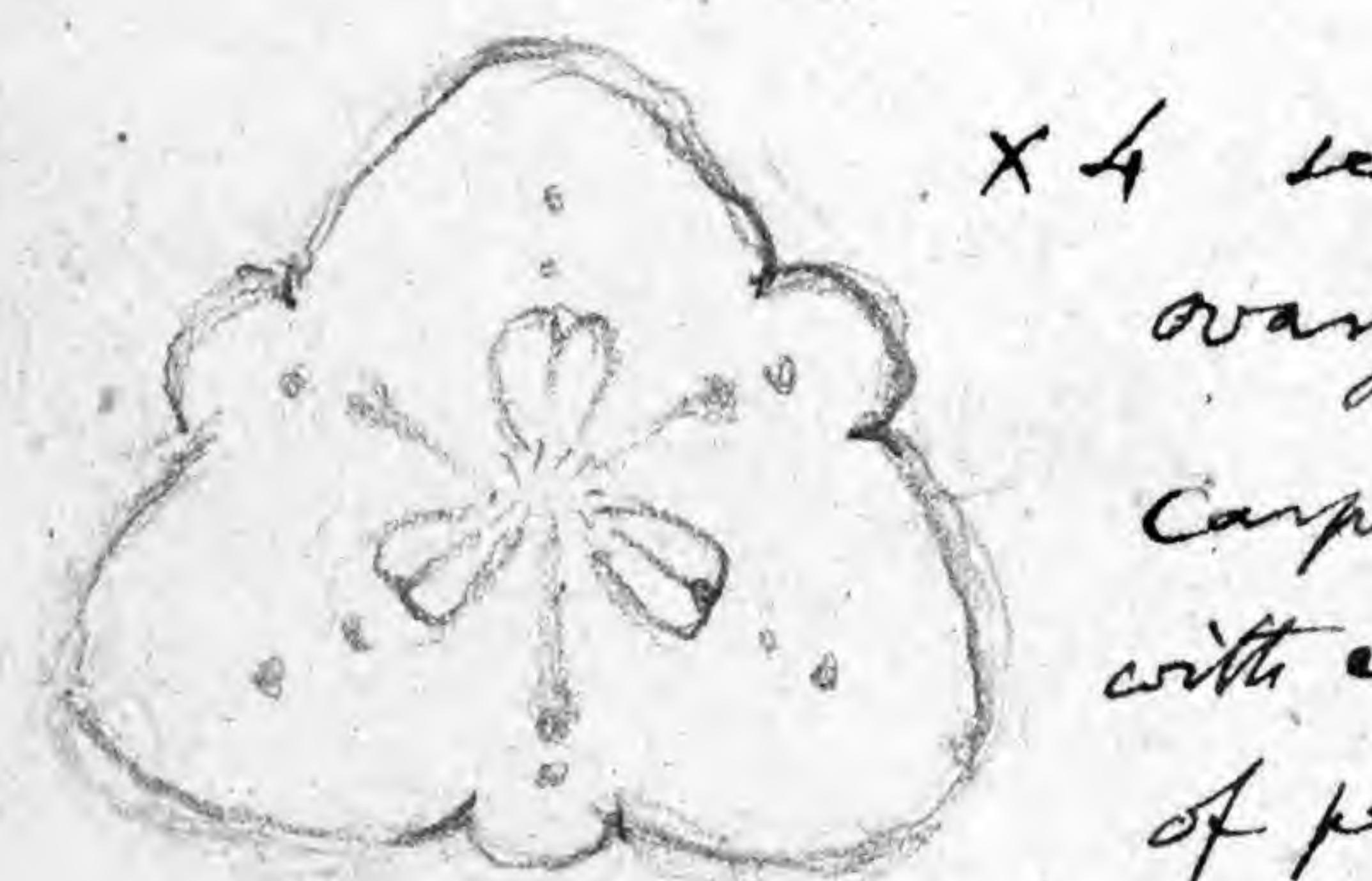
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radiment of pedicelle

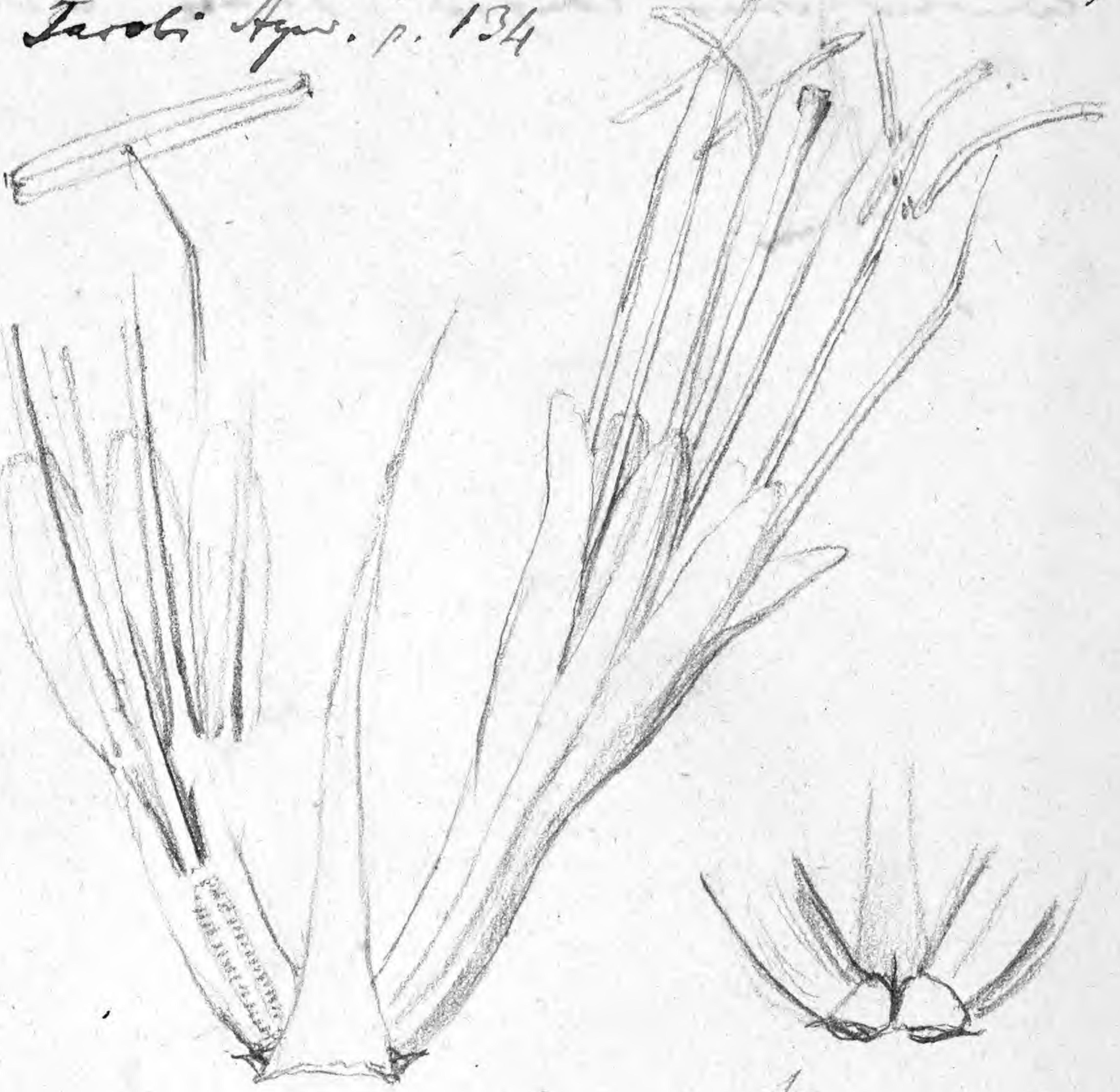
Agave mitis <sup>Hot. Monogr.</sup> Hort Bot Savol. June 14  
just beginning to flower 1869  
Tasch. Agav. p. 134



base of flower



x4 set of  
ovaries  
carpels composed  
with exterior lobes  
of perigon



abortive pedicelle green, fleshy subulate terminating in a spinous point  
pedicellules 2 mm long  
visible from behind (hid between flower  
and scape)

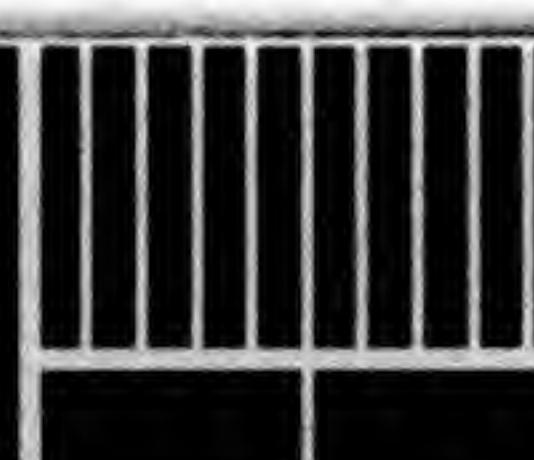
fls 48 mm long green & dark brown upwards  
over 14 mm long

tubes 13 mm long.

caruncles 20 mm long. oblong, about 8 mm wide, ~~erectish~~  
filaments 45 mm <sup>red</sup> style red brown. stamens inserted at base.  
anthers yellow 23 mm long

Trunk 1 foot high; leaves 1-2 feet long,  
4-5 inches wide; with sharp but small brown  
teeth and brown spinous point.

Scape 5 inches high, 3 of which are flower bearing  
~~not~~ densely covered; flower spike <sup>almost</sup> 2 ft.  
always



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divaricata  
in pairs, very rarely single, bracts subulate,  
lower ones larger than ovary.

Zornbo' do not know the flowers

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Sartori (Koch)

*Agave mitchii* (Hod. Monach)

*Bonducinae* *Isabellae*

(*chlorantha* Schur) *polyantha* Hand  
have all spiker flowers

Flowers in pairs, almost sessile  
of lanceolate sheathed in faux itself.  
much  
Tube shorter than oblong ~~petal~~<sup>petal</sup> long green  
petal long, somewhat or bending upwards  
plant long exserted tube as long as  
with bud infloresc



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Agave with  
Wax! Pit Agave, Wax  
be. 1-2 lbs 4-5 lbs  
Tartarian 1/2 P. May 5. 3 'bly  
after  
2 blly - 1 apple 3 'bly, Dens  
less than 1/2 lbs with 9/4

A. Saito (or) Nakai

Black Crows 2 - pup 2-3" bl  
few very ~~large~~ ~~large~~ purple  
large ~~of~~ ~~of~~ - black & bl  
2 AD Black  
WYI 4-5 bl Purple  
Grabs ~~that~~ ~~that~~ bl & purple

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1 Day delivery for up to 100 miles



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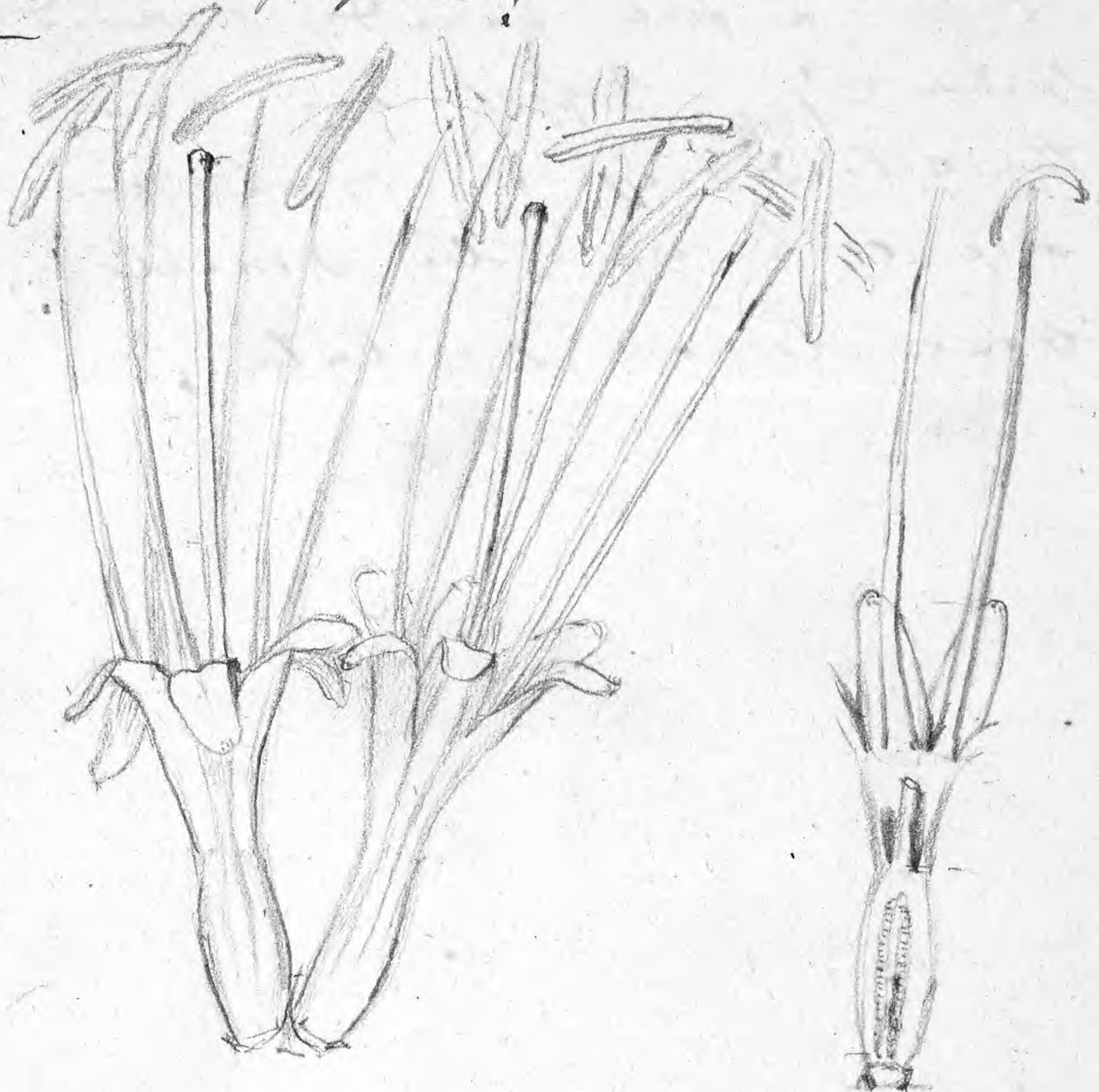
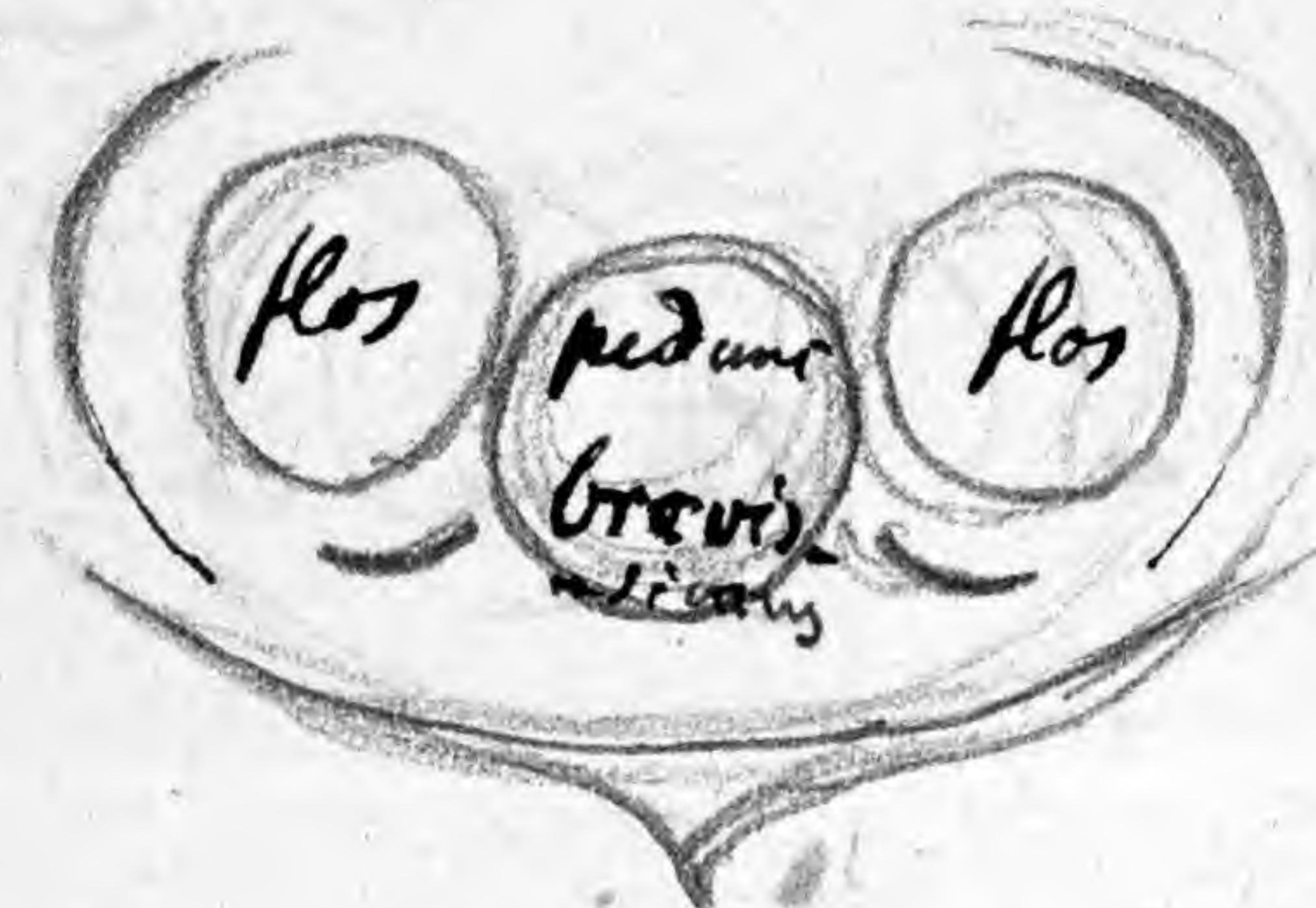
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*Agave Bouchardatii* *Jacobi* *Agave* <sup>Bot. Bot. Berlin.</sup> *Jun. 14, 1869*

This peduncle is schematic -  
only a rudiment present.



pedunculus brevissimus ( $1\frac{1}{2}$ "') bi-bracteatus  
pedicelli 2 <sup>1/2" longi aequilangi unibracteati  
Fls 38 mm longi ex viridi versus apote dextus  
brunneus,  
ovarii 16 mm longi percurrent  
tuba conica per amplectus 10 mm longa  
corolla 12 - 13 " in longa. dum petala  
reflexa, oblonga, apice obtusa villosula  
staminia ipsae fasciis inserta, flore duplo  
longiora, anthera superficie 15 mm longae  
staminis - alabaster reciliuntur.  
fluit 48 mm longa</sup>

*Agave Bouchardatii*: trunk 1 foot high, leaves  
 $1\frac{1}{2}$  - 2 feet long, 4 - 5 inches wide, edges with  
small but short and numerous brown teeth, and spine  
pointed, brown, short; sprouting.

over



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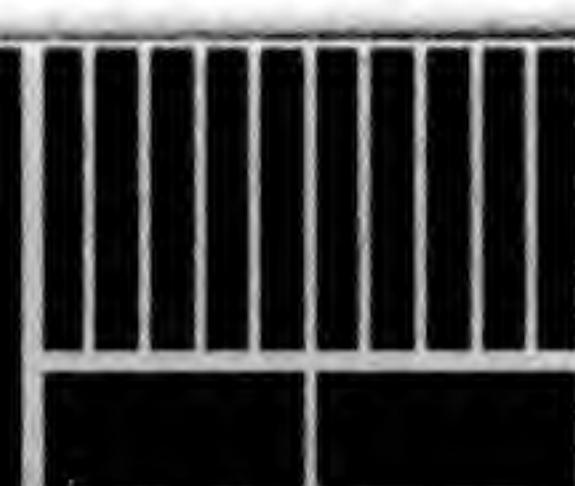


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Scape 2 feet naked, covered with bracts,  
spike  $2\frac{1}{2}$  - 3 feet long, not so dense as  
the allied ones. Bracts under the flowers for  
one inch gradually smaller, from a transverse  
base linear subulate.

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produit pour l'ornementation un effet grandiose et riche. Pour le midi de la France, cette Agave n'a pas son pareil.

Jeunes exemplaires . . . . .	8	"
Les six . . . . .	40	"
Beaux et forts exemplaires, la pièce . . . . .	45 à 25	"
Plantes d'exposition, extra fortes . . . . .	40 à 75	"

— — — forts pieds importes, caractérisés (bien garnis de rameaux). . . . .	15	"	
— — — extra fort et magnifique . . . . .	50	"	
— <b>californica</b> . . . . .	10 à 25	"	
— <b>canaliculata</b> , fort . . . . .	15	"	
— <b>cornuta</b> ( <i>Californie</i> ), bel exemplaire. . . . .	5	"	
— <b>De Smetiana</b> , belles jeunes plantes . . . . .	4	"	
	Les six . . . . .	20	"
— — — fortes plantes, la pièce . . . . .	10 à 20	"	
— — — exemplaires superbes d'exposition . . . . .	40	"	
— <b>filifera</b> (VRAI), fort . . . . .	15	"	
— <b>flaccida</b> . Admirable pour massifs en pleine terre, fleurit abondam-			



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*Ag*  
*Ag*  
*de Janet C. Gentry*  
*1980*  
**VICTORIAE REGINÆ** (Nouveau-Léon, Mexique). Sans contredit le plus extraordinaire et le plus merveilleux d'un genre si riche et si recherché. Aucune plante n'a fait plus de bruit lors de son apparition dans le monde horticole! **Sa renommée est universelle.** Tout justifie d'ailleurs cette brillante réputation. Son port trapu, ses nombreuses feuilles épaisses de forme **presque triangulaire** (dans le

8002

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genre de celles du *Leuchtenbergia principis*), d'une belle couleur verte, **terminées par un fort dard court entouré de plusieurs petites épines**, lui donnent un aspect **extraordinaire et tout unique**. Les feuilles sont en outre largement bordées et lignées de blanc, dans le genre de celles du bel *Agave schidigera*. Joignant donc aux **caractères** les plus **bizarres** ceux de la plus **élégante beauté**, cette plante est destinée à trôner dans toutes les collections. Je n'ai pas reculé devant les grands sacrifices que j'ai dû faire pendant trois années consécutives pour réintroduire cette merveille; et c'est grâce au désir des nombreux amateurs et à leurs instances que je suis à même d'offrir maintenant quelques beaux pieds de cette brillante Agave.

Bel exemplaire bien établi et bien caractérisé . . . . .	30 à 50	»
— — — — — Plus fort . . . . .	75	»
Specimens d'une beauté extraordinaire . . . . .	100 à 200	»



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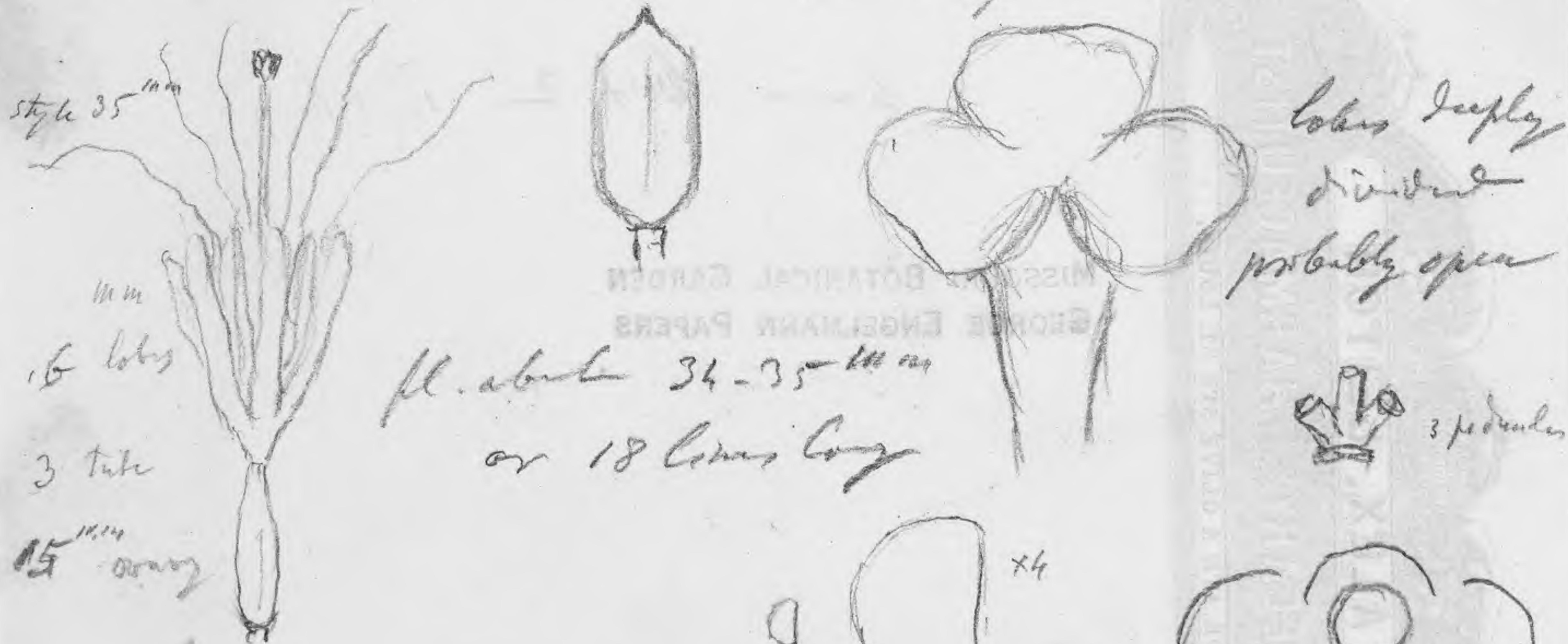
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no anthers seen

Agave Victoriae Regis May 18 1880  
E. Olson, Monterey  
stigma x10



Tube 1½ cm. long, infundibiform and 2 lines long  
lobes 8 cm. long, at least 5 times  
as long as tube  
1½ wide

Flamants inserted in base of lobes  
twice as long as lobes. Style  
shorter than the plant

Flowers 3-  
each 2 branched



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Ann 6x2 inches

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May 19 1870

fig 68. Flowers in autumn  
according to  
Dr. C. Palmer  
In coarse gravel on <sup>high and</sup> steep hills near Monterey, Northern Mex 10,  
Dr. C. Palmer ~~February 1880~~ gathered fairly species last February,  
The regularity of the leaves has been sufficiently well known, but  
the inflorescence has only been brought to our knowledge by the exertions  
of Dr. Palmer, a few months ago. The plant is a very ~~dark~~ flowering  
littrea, with a remarkably short perigynial tube, & its great  
morphological interest consists in the regularly ~~triplinerved~~  
(at least in my specimen) to flowered bracts, the third  
occupying the interval between two normal genitious flowers of this section of  
flowers & probably the primary ~~triplinerved~~ <sup>This is</sup> flower in most or - all  
other littreas is entirely absent, or is a few <sup>bracts</sup> only indicated by a bristle.  
A specimen sent by Dr. Palmer to Stems\* provides  
a bloom and exhibit as the flowers which no botanist  
has yet been able to study in the living state.  
Diam of plant 2 feet, height ~~25~~ inches 250 leaves 7-8 inches long  
2 $\frac{1}{2}$  wide, 6-12 inches thick (12 near base

Forrest, Summer of 1886, W. J.



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*Im. 2. A type*  
 bracts large, strongly fringed, deciduous;  
 strongly developed in bracts all around leaf; male flowers larger,  $1\frac{1}{4}$  in. long, thicker, anthers  $\frac{1}{2}$  lines long; crest  $\frac{3}{4}$  line wide, strongly fringe-decussate, involucro not seen. The ~~thin~~ <sup>thick</sup> bracts of strengthening cells and the larger male flowers readily distinguish it from the two others.

8. *P. montana*, Durv. is so well distinguished characterized that it is inconceivable how it could have been taken for a variety of *P. sylvestris*, unless some hybrid forms, which are said to occur, have created the difficulty. The involucral bracts are always more numerous, usually about 6, the anthers crested, the female aments subsessile and the young cone erect; in *sylvestris* the involucral bracts rarely exceed 3, the crest of the anthers is reduced to a small ridge or a few teeth, the ~~peduncle of the~~ female ament is shorter than its peduncle and becomes decurrent soon after flowering.

9. *P. resinosa* Ait. is the only American representative of this well characterized ~~subgenus~~ <sup>group</sup>. The 6 involucral scales are articulated in the middle, the upper part soon falling off early (pag. -); periphereal ducts

10. *P. densiflora*, Sieb. & Jucc. leaves with numerous periphereal ducts, mostly surrounded by ~~hypocresia~~ <sup>strengthening</sup> cells, also some within the sheath; in a few instances in Japanese as in cultivated specimens the strengthening cells are almost wanting; male flowers <sup>oval</sup> only 2 to 3 lines long, in an elongated spike; involucrum of 3 or 4 or ~~sometimes~~ <sup>rarely</sup> 5 or 6 bracts of equal length; anthers only  $\frac{1}{2}$  line long or less with a small, slightly decussate crest. <sup>Only in Japan.</sup> Sometimes cultivated under the name of *Massonia*, the following.

11. *P. Massoniana*, Lamb. Desat. well distinguished from the tree thus named by Siebold and <sup>and Endlicher.</sup> ~~Jucarini~~ distinguished by Desatore as *P. Thunbergii* (see note 26). ~~It is~~ It is similar to the last, but has longer and slenderer leaves, and is a native of a warmer climate, southern China, and is not hardy where *densiflora* and *Thunbergii* is. ~~leaves with few or many periphereal ducts~~ often with a few strengthening cells, these cells also in the corners, very little under the epidermis, rarely some with the vessels; male flowers slender, cylindric, 6-8 lines long, in a spike, involucrum of 6 or 7 bracts, the outer pair rather shorter than the inner ones. Griffith No. 4992 from Afghanistan <sup>in Herb. Kew</sup> with 2 ducts on the upper side of the broader leaves may belong here, which would extend the geographical area of this species.



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1900 Oct 11. 1900

✓ it is now about of the right size why doesn't it  
subdivide At the same time it is  
now about the size of a small child

1/4 and  
then again with 2 under legs, and was suspended in  
addition to the weight of the bird. It  
is the weight of the bird  
that  
was filled with nest, which was right off  
the nest, and  
fully saturated with glue.



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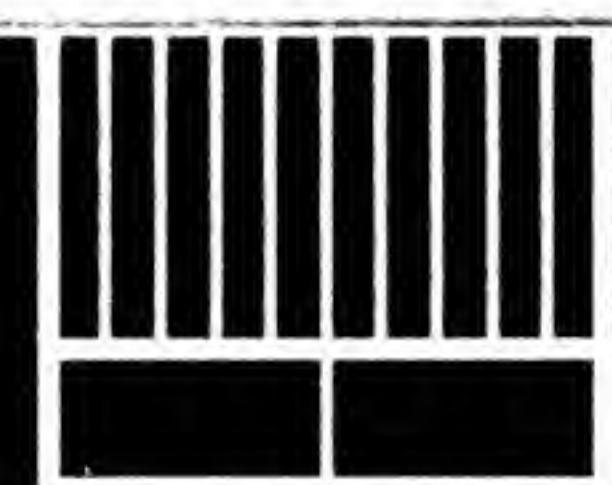
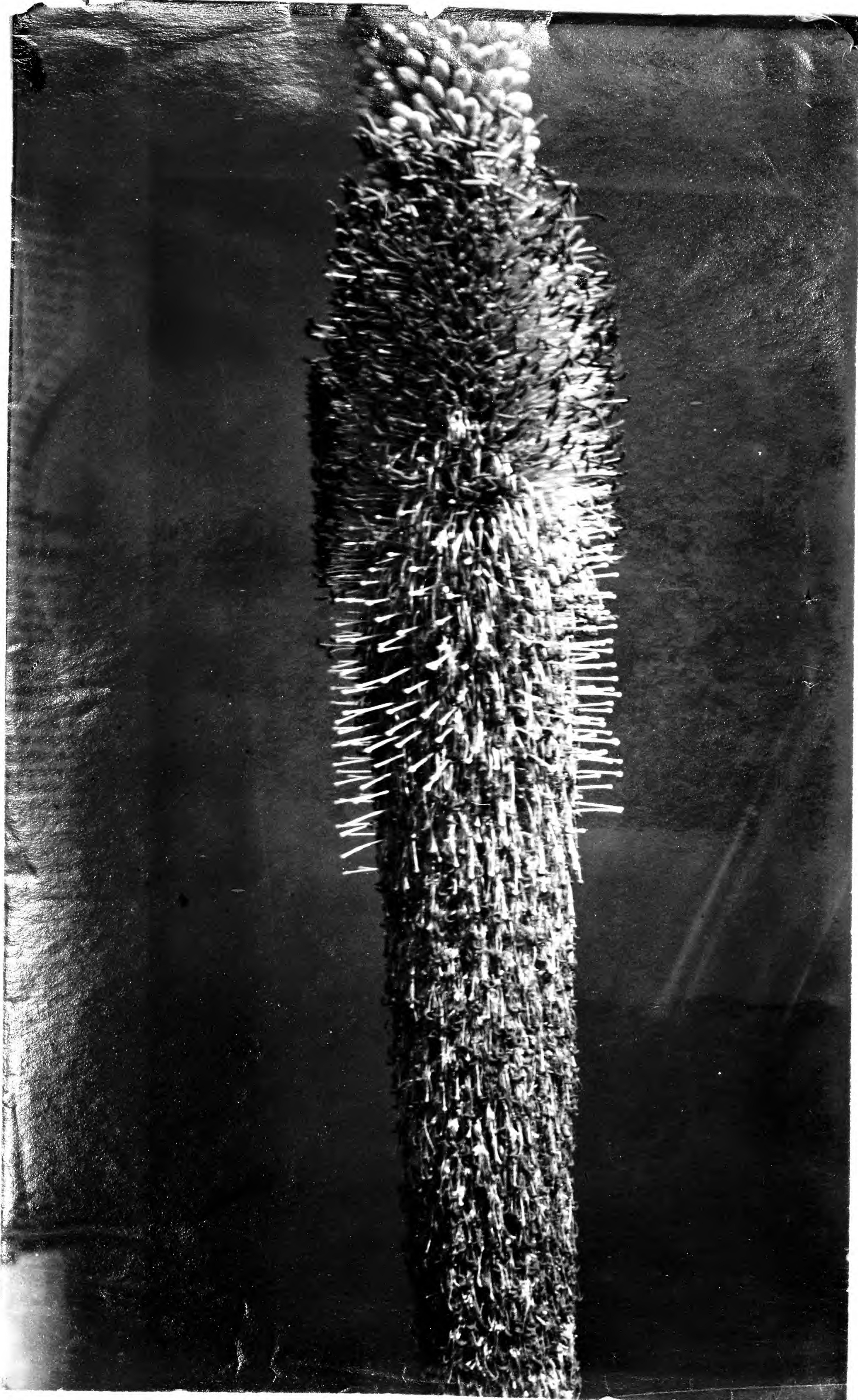
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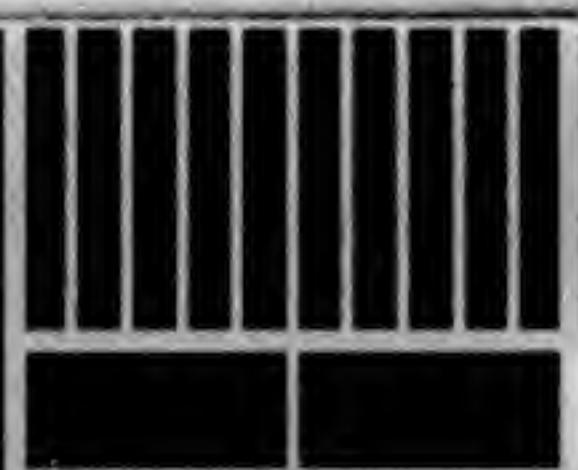


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MISS. IN BOTANICAL GARDEN  
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Agave victoriae Regiae,  
Flowering at Cambridge, 1882  
August



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*Agave Victoriae Regiae*  
plant from  
Monterey

Aug 15 1882

11 AM

Herb. Coll. Cambridge

anthers open

anthers closed

anthers

12-13

mm

this lateral  
flower is 24  
hours earlier than  
the others.

tube full of nectar

flower 30 mm  
perigon 18 mm <sup>lby 15</sup>  
ovary 12 mm <sup>tube 3</sup>

anthers 12-13 mm long, acute. in the middle

tube 3 mm. deep

lobes 15 mm long  
stamens inserted in the  
middle of the tube; except  
at first about 20 and when  
they open about 26 mm.



color of flowers and all their  
parts light greenish yellow  
bracts on the scape <sup>together</sup> numerous  
broad base, the lower ones <sup>involute</sup> <sup>involute</sup> <sup>involute</sup>  
8-5 cm long  
plant with about 200 leaves

Scape 10 <sup>long</sup> feet from  
top of leaves, <sup>long</sup> <sup>long</sup>  
circumference near base  
spike of flowers about 6 feet  
linear bracts  
fl. from



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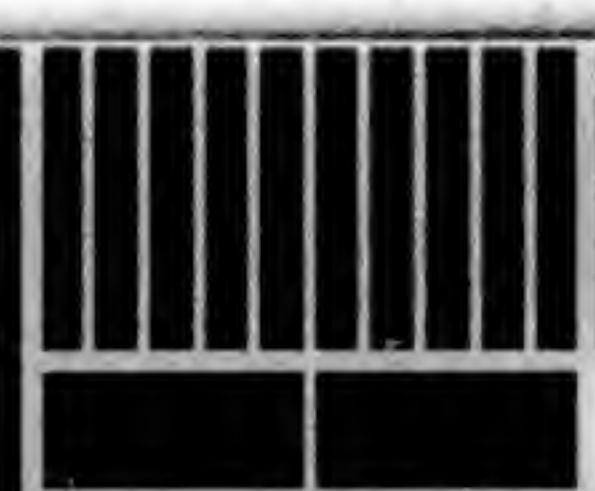
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2 *W. h. sp. n.*

Oct 1923 1923

2. *Thlaspi glaucum* (L.) Benth. and Hooker  
the glaucum which has glaucous leaves in the umbellifer  
genus is reported to be a very pale green, with the  
exception of the white veins which, it is added  
cannot be affected by powder. See Parker, *in Journ.  
of the Royal Microsc. Soc.* no. 91. It has smooth narrow leaves.

base of the flower stalks, with the  
bottom half of the stem, the upper  
part of the flower stalks, the flower  
itself, and the upper part of the  
stem, nearly bare, with the <sup>tip</sup> ~~tip~~ of the  
oval spreading stem covered with  
soft hairs; stiff stiff copper colored hairs  
below and very few

Oliver Mrs. follows A Victorian Regime

717 8 Dec  
948 15 Dec  
780 22 Dec



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Agave *Yuccifolia*

[This folder enclosed  
sheets 54 + 55]



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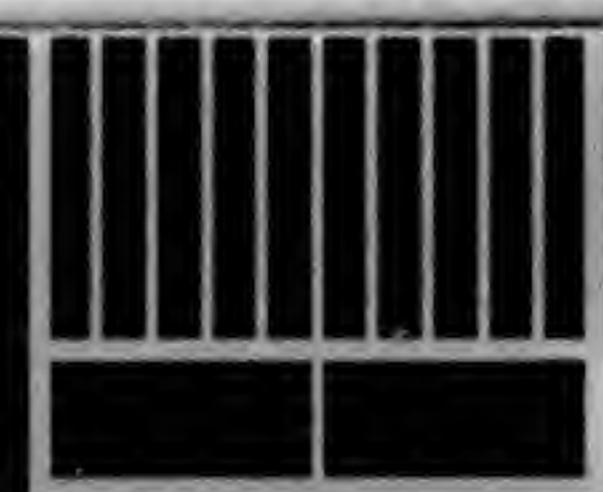
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Note.—The sheets of this number, from pages 1 to 114, were printed and partially distributed May 1, 1862. Owing to circumstances beyond our control, it has been impossible to issue the entire number before the present time, May 5, 1863.

*Publishing Committee.*



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tire number before the present time, May 5, 1863.

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~~type volume 19  
8 May 1900  
new species  
new species  
and affinities~~

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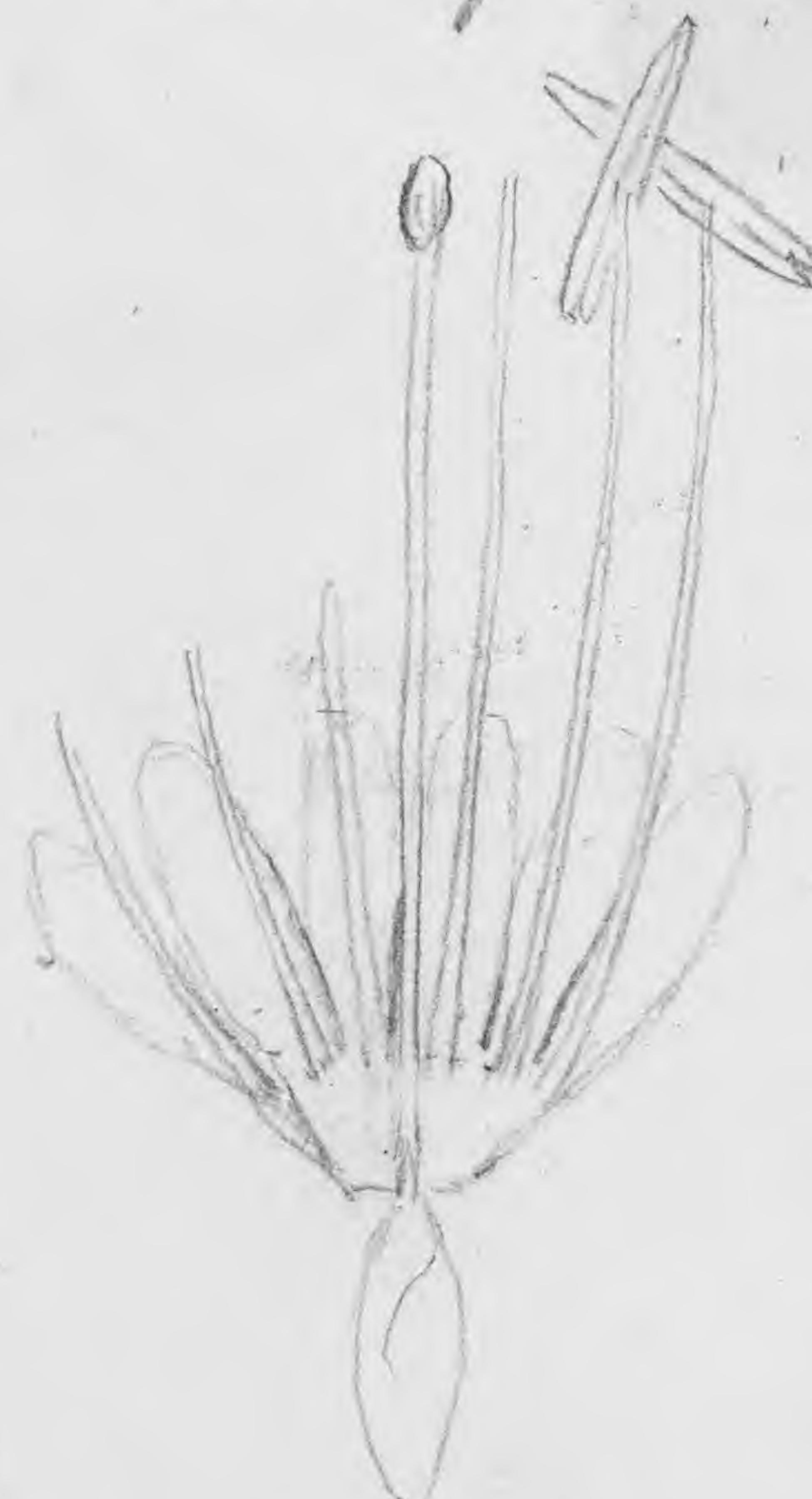
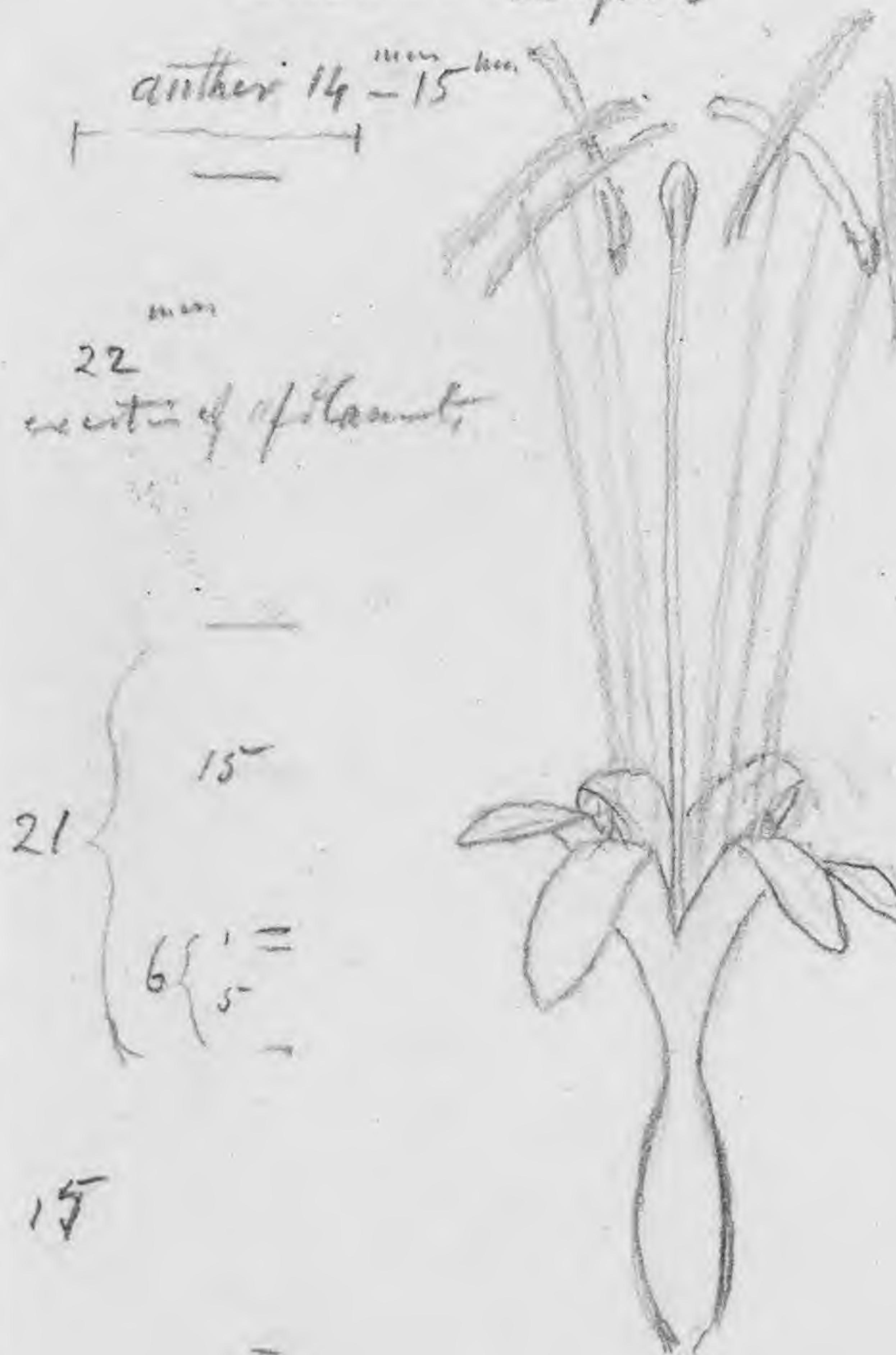
MISSOURI  
BOTANICAL  
GARDEN

*Agave guadalupensis* Red

March 3 1871

Cult. Herpol

ex H. Gossone Neapol.



0 1 2 3 4 5 6 7 8 9 10

cm

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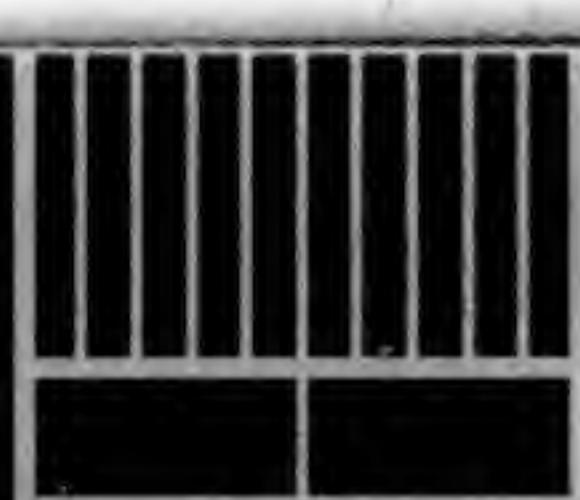


MISSOURI  
BOTANICAL  
GARDEN

8010

DR. GEORGE ENGELMANN  
APOTHECARY AND CHEMIST  
Marble Building, cor. 4<sup>th</sup> and Olive Sts.  
ST. LOUIS, MO.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



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cm

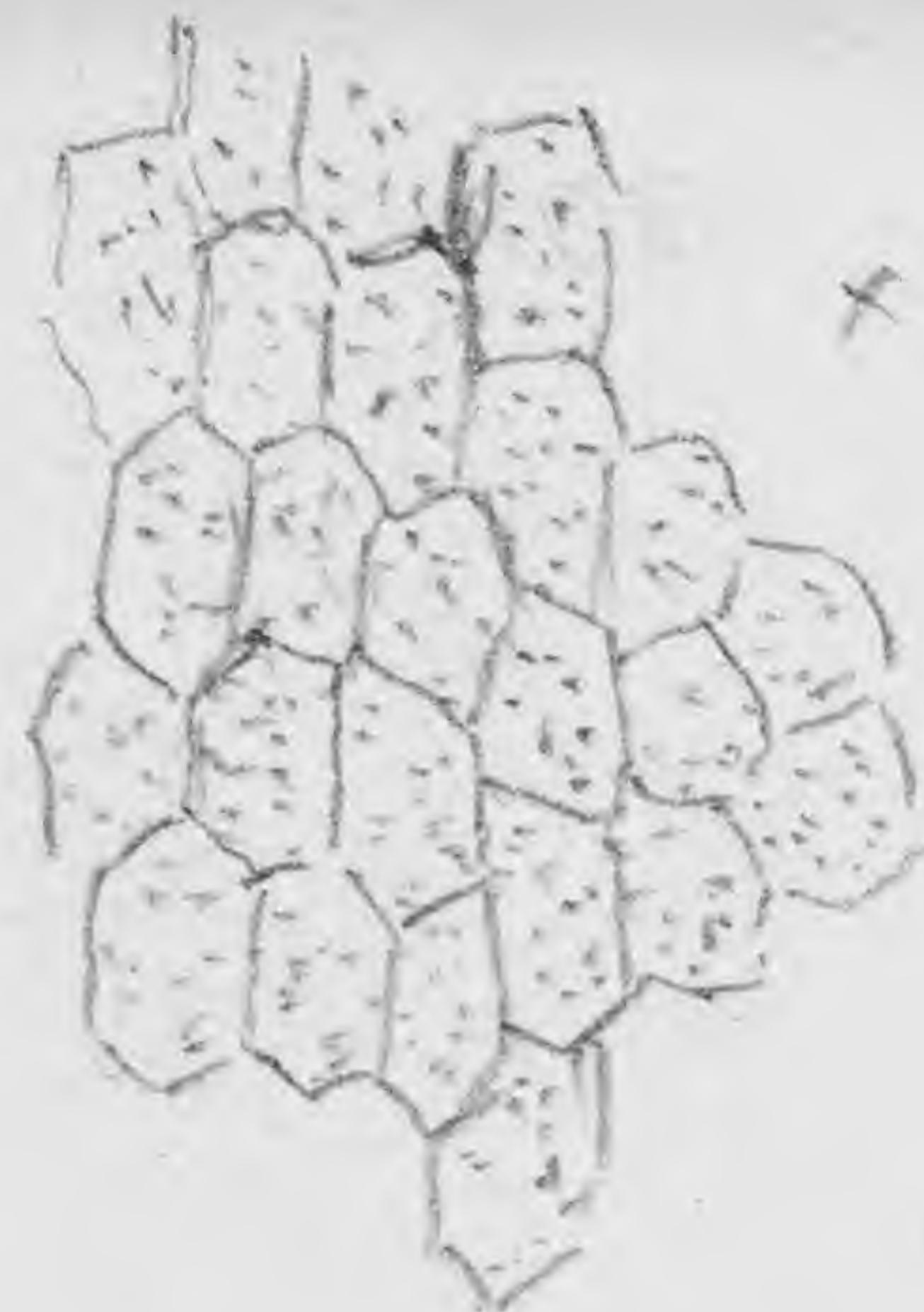
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GARDEN

*A. yuccaefolia*  
coll. Vesinell 1269

16. May 1872



x150

cells flat, slightly other

RECORDED BY HENRY C. IRVING  
AS A FAVOR TO THE BOTANICAL SOCIETY OF AMERICA



0 1 2 3 4 5 6 7 8 9 10

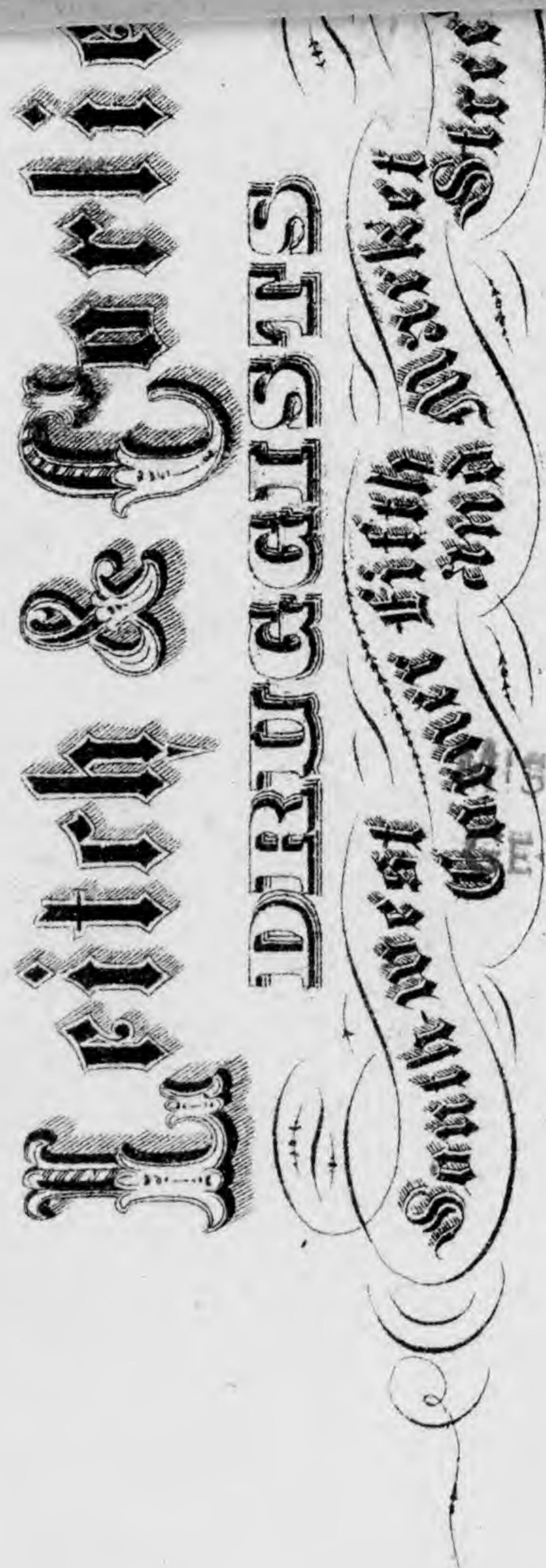
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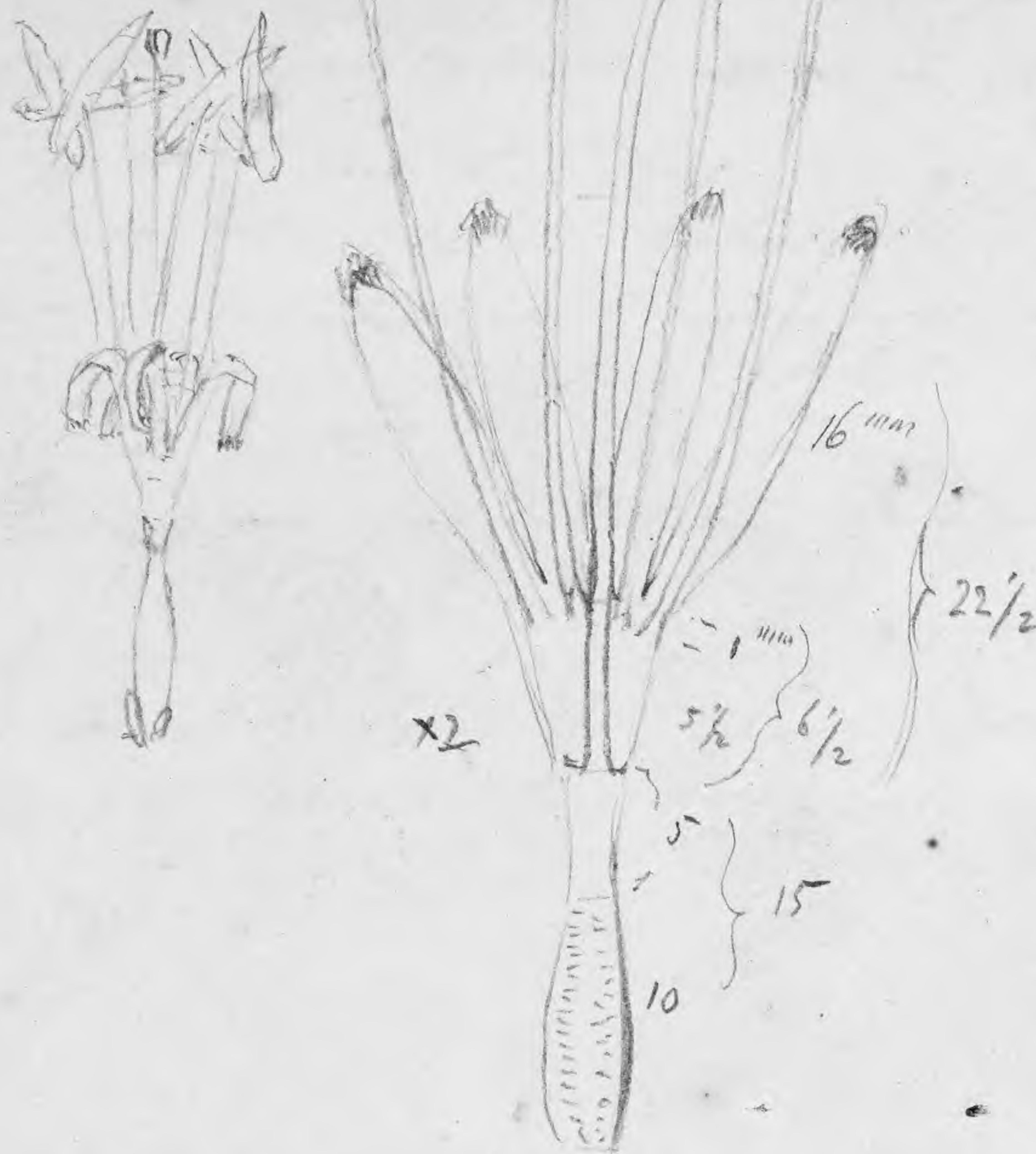
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Agave maculata  
fl. Cambridge - January

Febr 22 1877



anther 15<sup>mm</sup>  
corolla 23 mm  
tube inside 6.5  
lobes 16  
ovary 10<sup>mm</sup>  
neck 5<sup>mm</sup>  
filament 14  
length of lobes  
style 24 " " "  
filament inserted 1"  
below throat.

x 2  
anther green  
acute



0 1 2 3 4 5 6 7 8 9 10

cm

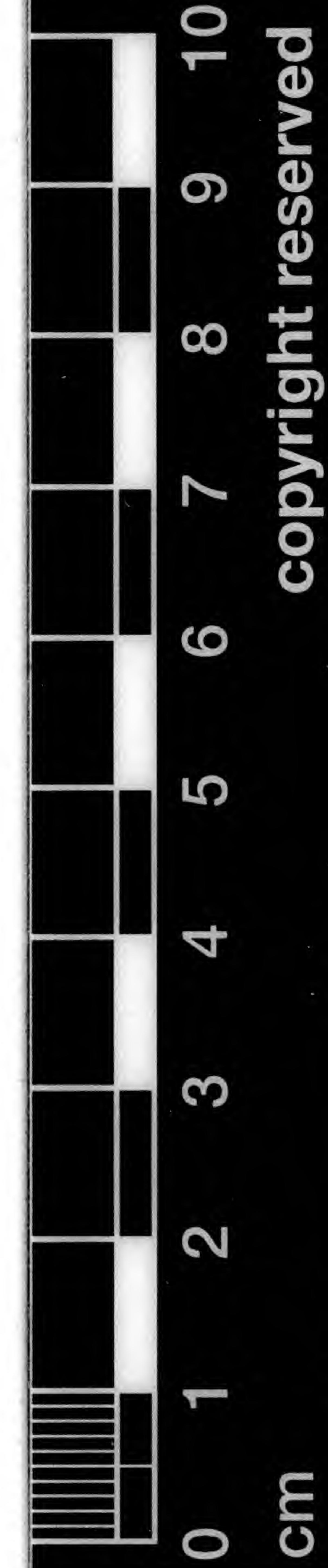
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BOTANICAL  
GARDEN

Supply, engraving, & book  
binders to,  
Supply & Cotties  
developed 10  
feet in length  
at the  
West corner  
of Fifth and Market  
Streets.

1875  
PRINTED  
BY  
THE  
MISSOURI  
BOTANICAL  
GARDEN



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GARDEN

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*Agave guadalupensis*

Feb 22 1877

in flower, Cambridge, January.

flowers in pairs, bracts scarious, oblong, obtuse; short  
ovary 10<sup>mm</sup> neck 5<sup>mm</sup> long 2<sup>mm</sup> wide, very woolly at tip  
inside of tube 6½<sup>mm</sup> lobes, 16<sup>mm</sup> perianth 23<sup>mm</sup>  
filaments inserted 1<sup>mm</sup> below fax 5-6<sup>mm</sup> above  
base of tube - purplish spotted; exert above  
perianth 14<sup>mm</sup>  
anthers green pointed tip, <sup>deeply</sup> emarginate at base -  
15<sup>mm</sup> long.

style was fully developed 10<sup>mm</sup> long the author  
the whole style: 46<sup>mm</sup> long; stigmas like that  
of the pavonine, three short erectish lobes.



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MI  
BOTA  
GARD

West Corner Fifth Street

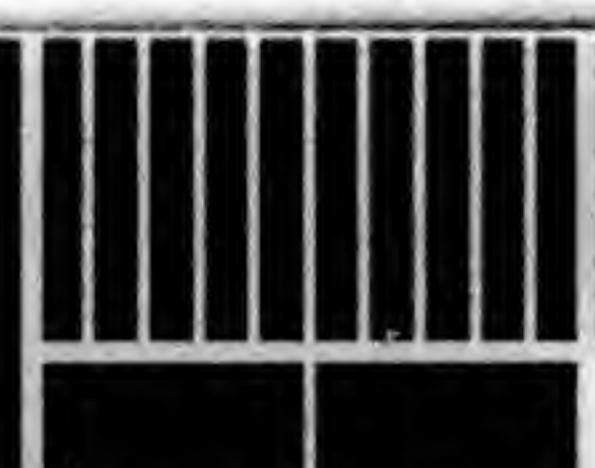
8013

Leitch & Corlies

DRUGGISTS

South West Corner Fifth and Market Streets.

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0 1 2 3 4 5 6 7 8 9 10

cm

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C. S. Sargent, Sept 24 1877

Agave vivipara f.

In my plant which flowered under glass  
last January, there was abundant  
honey excretion, filling the tube.

But now, in the open air, the  
flowers of another Spec'm are  
dry, and bees leave it in  
disgust - flowers not setting,  
falling off!



0 1 2 3 4 5 6 7 8 9 10

cm

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B

No.

For



8014

Lieber Herr Doctor,

Sehr geehrte

Sehr Ihr Belle flower gern als das, so  
würde ich mir Ihnen von der signata  
früher gern als Bonn mit den Wäldern.

Sehr Ihr die selben wirft bloß mit den  
signata gern als Bonn, und meint von  
den Gräben gern als Westfalen  
zu Gunsten mögen.

Wollen Sie auf freundlichst Ihr  
Königreich pflanzen bestimmen; ob  
es mir weiß Trüppen und dunkleren  
Blüten, die ich im Gras fand und  
dieses Moosfliegen in gäste Lorch  
zu mögen der Entwickelung verhalf.

Ihr ergebener  
Eduard Sander.



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cm

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


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GARDEN



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BOTANICAL  
GARDEN



C. S. Sargent  
Agave  
In my plant when  
last January,  
honey secretion,  
But now, it  
flowers of another

Deutsche Aphtheke.

GEORG. UDOE,



No. 3610 North 10th Street,

Between Mallinckrodt and Salisbury,

ST. LOUIS, MO.

187

No.

For

R.P.

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vector,  
which  
over your garden, for

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1008

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REPRODUCTION PROHIBITED



*Agave yuccifolia*

Brookline, Mo.

Sept 1877

Mr C. S. Sargent



0 1 2 3 4 5 6 7 8 9 10

cm

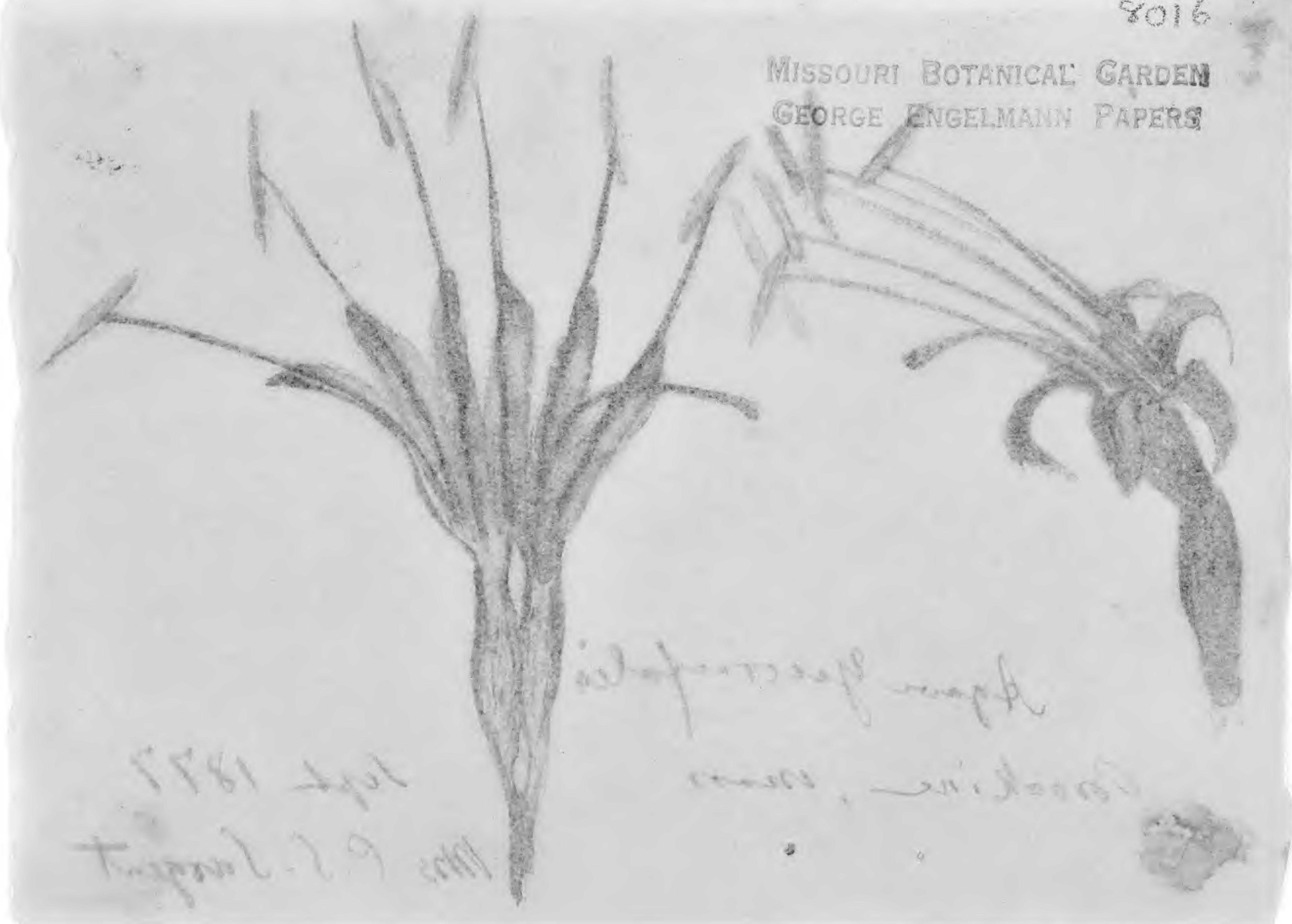
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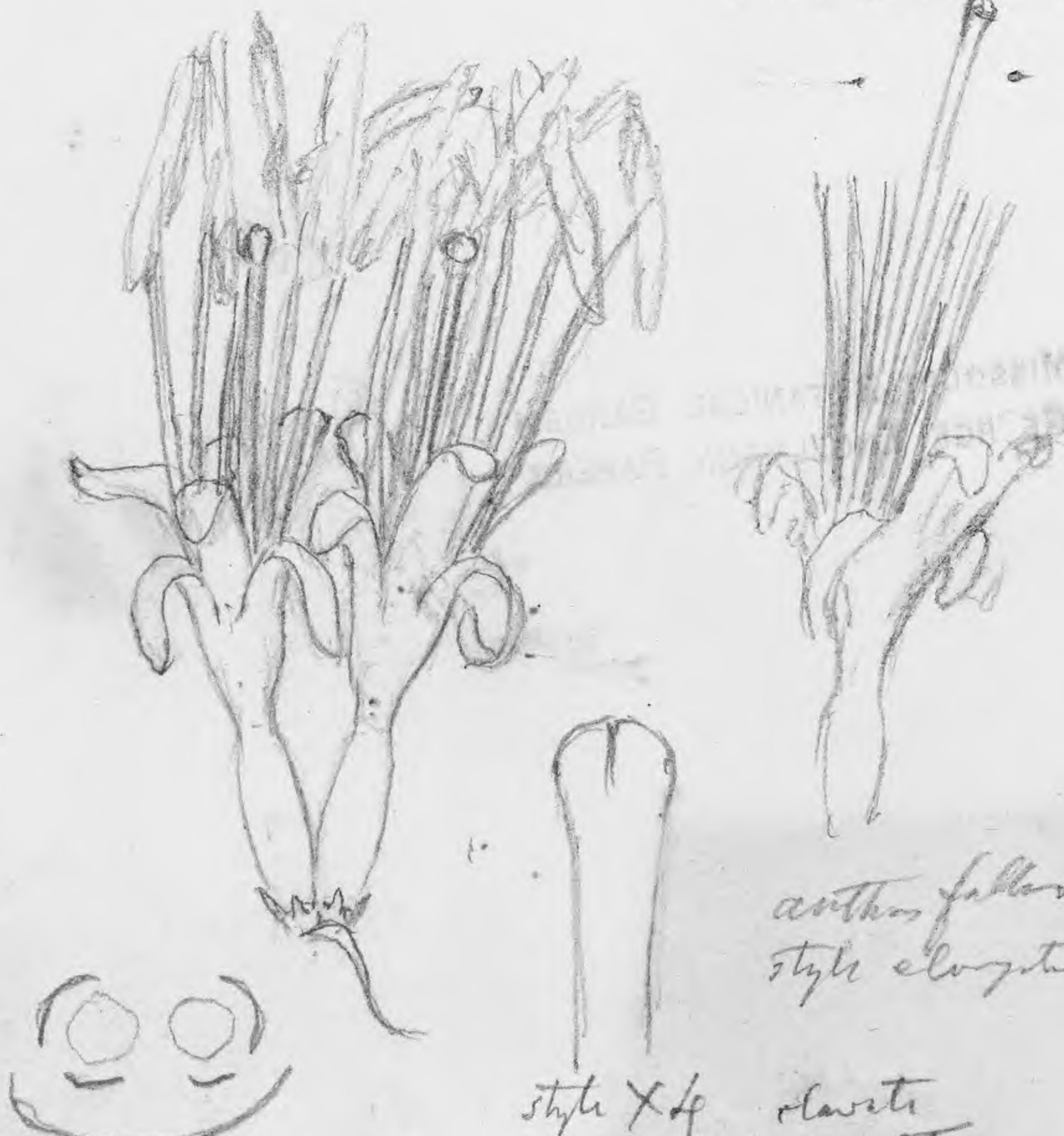


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*Agave macrantha*

H. B. Neumann Nov. 2<sup>nd</sup>

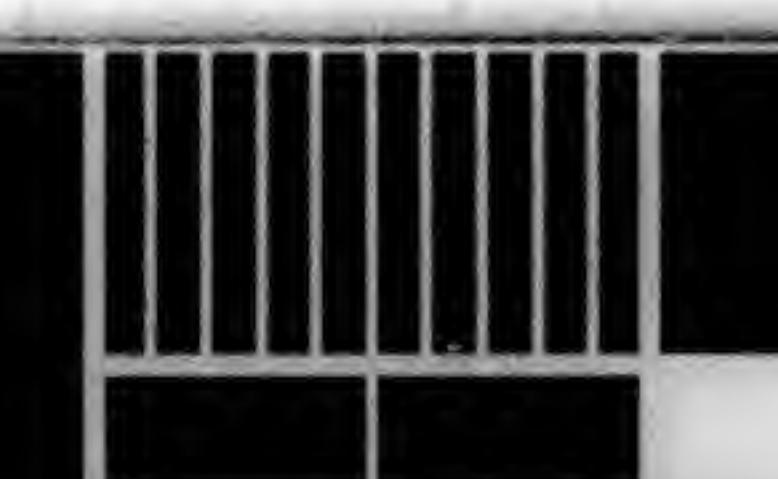
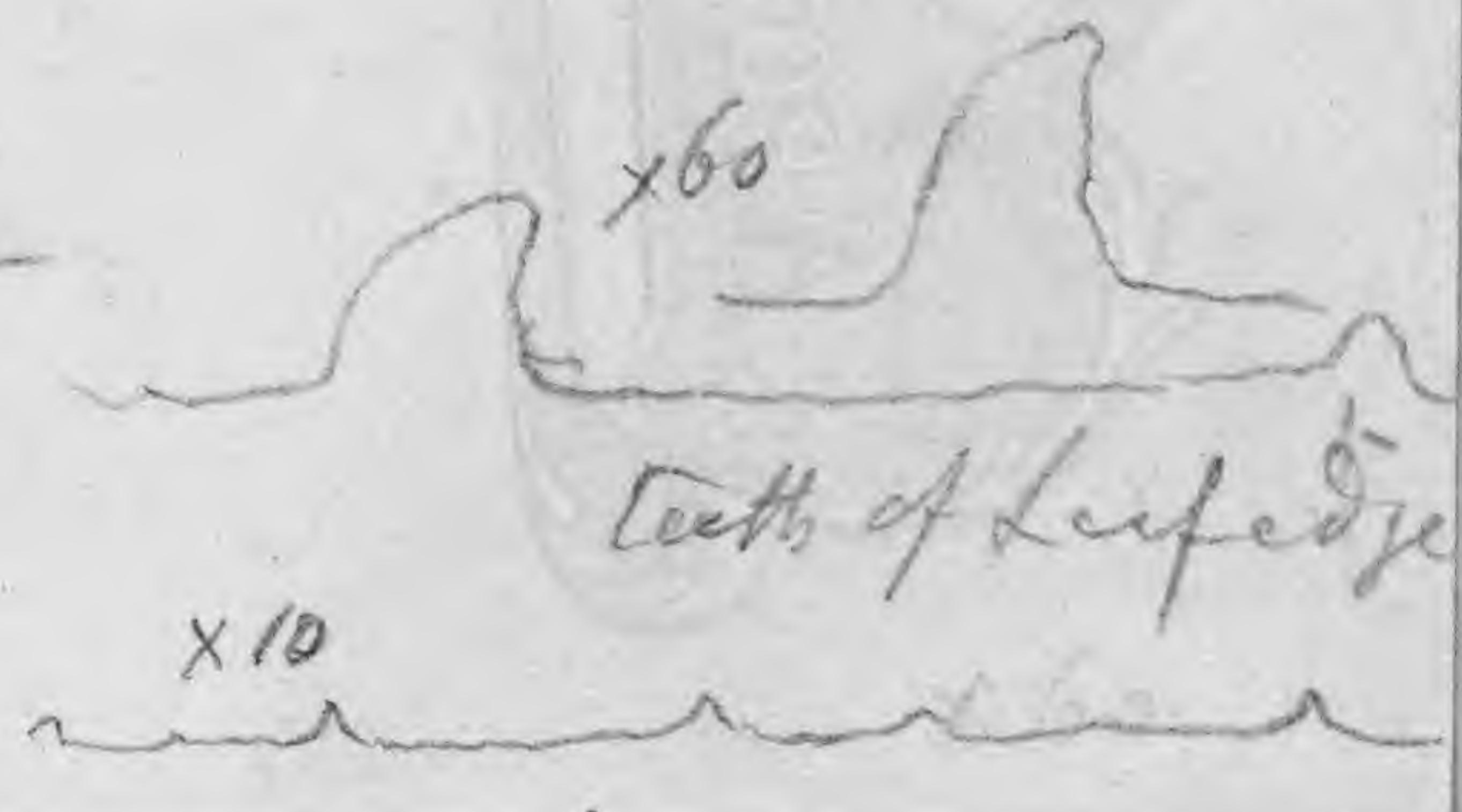
Nov 3<sup>rd</sup> 1882



anthers fallen  
style elongate

style X4  
slavata  
and capitata

anthers 17 1/2  
filaments inserted in facets  
stamens inserted in facets  
35-40 mm long  
style about 140 mm longer  
in all 35 mm long with long  
perianth 24 mm green  
tube 6-7 mm full of  
lobes 17-18 mm.  
ovary 13-15 mm  
stamens & style brown  
perianth and anthers  
greenish



0 1 2 3 4 5 6 7 8 9 10  
cm

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0  
cm

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2

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4

5

6

7

8

9

10

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GARDEN

"Agave filifera?" "Lechuguilla" manza  
the Agave with f. canadense-edged leaves is the  
common Soapplant of this district  
(San Luis Potosi), brought to market  
by the bushel  
not yet in bloom

Perry, letter July 1<sup>st</sup> 1878



0 1 2 3 4 5 6 7 8 9 10  
cm

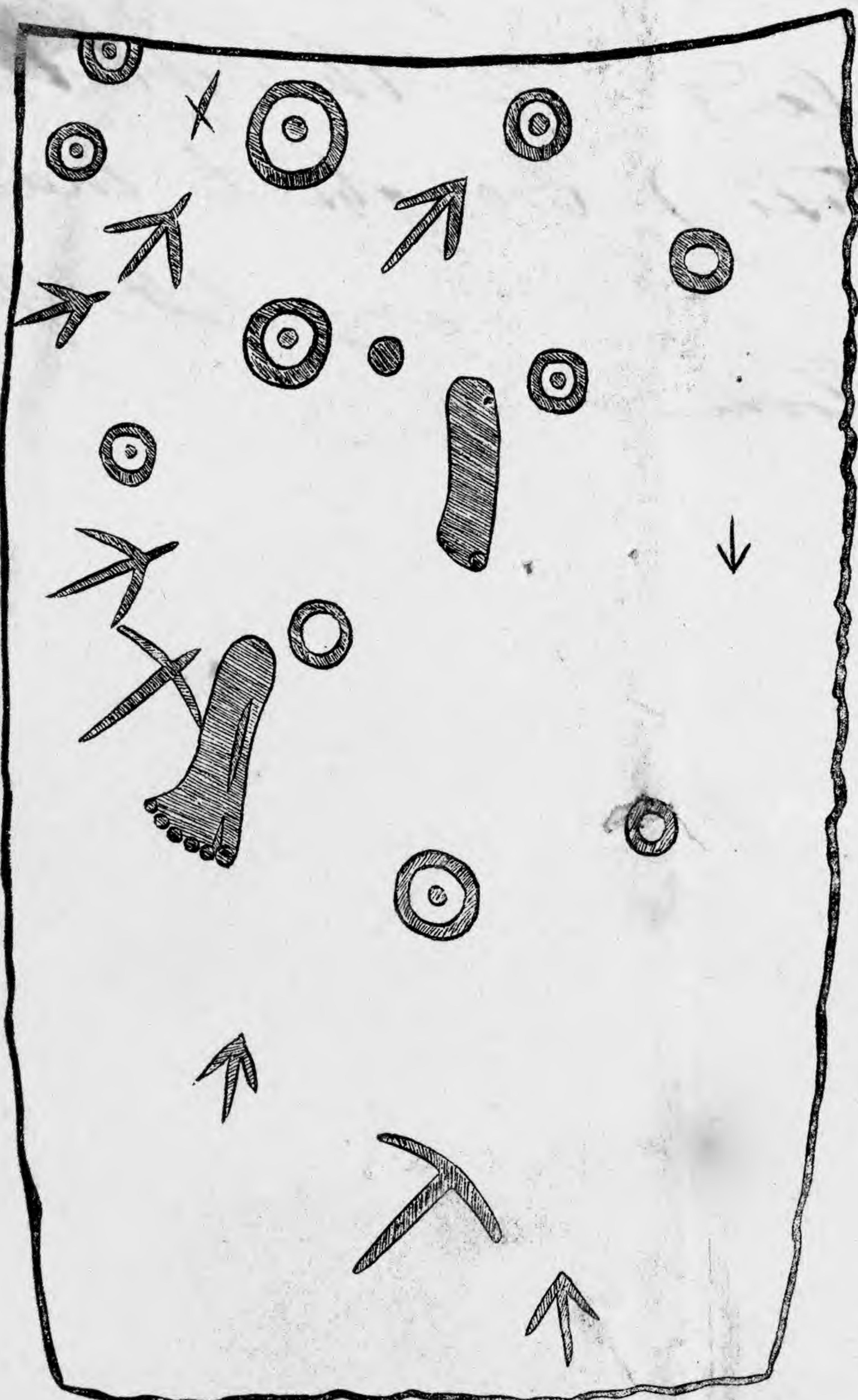
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0 1 2 3 4 5 6 7 8 9 10  
cm

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GARDEN

Die Länge der Blüthensträucher bis  
zur Blüthensträube  $3\frac{1}{2}$  Fuß.

Länge der Blüthensträube 5 Fuß  
Die Blüthen sind bloß fünf. Die  
Lippen sind 2 1/2 Zoll lang  
no. 11. 1. 1. 1. 1. 1. 1. 1. 1. 1.

2 filamentosa



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

8020

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